## Data Sheet

We make sure



## PRIMERGY TX150 S6

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Mono socket Quad-Core Intel® Xeon® UP based Tower Server – World class in quality and redundancy

Pages 2

PRIMERGY TX Tower Servers ensure energy efficient, carefree and continuous operation with proven data center technology. Their design for maximum ease of use and ease of management has been honored with industry design awards. The latest processor generation combined with innovative air flow cooling technology ("Cool-safe<sup>TM</sup>") assures a long life and the highest possible performance at work. And as your business grows, so do our PRIMERGY TX servers, providing plenty of headroom for expansion so that you benefit longer from your investments in PRIMERGY tower servers.

For corporate workgroups and remote sites, PRIMERGY TX servers ensure less troubleshooting and lower costs with their complete PRIMERGY ServerView Suite remote management functions – flexible management from anywhere at any time.

The flexible custom supply model and our build-to-order process mean that only fully built and pre-tested solutions are shipped to customers, who can select from a broad family of tower models to meet their individual needs.

## **PRIMERGY TX150 S6**

The PRIMERGY TX150 S6 tower server delivers new levels of energy efficient performance with Intel® Xeon® Quad-Core processor 3300 series. This is achieved with up to 1333 MHz FSB clock rate and with Intel's new state-of-theart multi-core optimized microarchitecture. A server with this processor proves to be a particularly powerful system that can respond quickly to your requirements. Enhance your efficiency when it comes to simultaneous execution of multiple applications and downloading mass data. The processor with the Intel® 3210 chipset also supports virtualization and EM64 technology. This sixth-generation tower server combines high performance with low noise. The 3.5-inch SAS or SATA or 2.5inch SAS hot-plug hard disks can be replaced easily while the server is in operation. High data security is offered thanks to built-in RAID 1 functionality and an optional ibutton RAID 5 implementation for SATA or a modular RAID for SAS configurations. The standard iRMC S2 (integrated Remote Management Controller) offers enhanced system management and graphics based on IPMI 2.0 technology, and the redundant power supply module further increases operational reliability. Dual-Core Xeon® processors and an even more power saving Celeron® processor round off the offering alternatively.









## **Benefits Key Features** ■ High security against physical loss of data ■ ECC, built-in RAID 1 functionality and optional ibutton RAID 5 for SATA or modular RAID for SAS configurations ■ Tailor made availability, offers the security level which is ■ Hot-plug HDD infrastructure (standard) recommended by your individual application demands Hot-plug redundant PSU (optional) ServerView Local Service Panel (LSP) optional for customer's Service on its own ■ Allowing the platform to do more in less time, IT depart-■ Intel Quad-Core processor, provides four execution cores in one ments can consolidate applications and more effectively physical processor with less power consumption employ the server with less power consumption ■ Energy efficient Intel Celeron processor even more power saving ■ Expandability options for further growth ■ Up to 4x SATA or 4 (6)x SAS/SATA 3.5-inch, up to 8x 2.5-inch SAS hard disks, 6 PCI/PCIe slots, (5 with SAS), 1x Gbit LAN plus extra Service LAN for iRMC S2 Investment protection through optional tower to rack ■ Universal tower-to-rack conversion kit conversion kit

Mono Socket Tower Server				
Chip set	Type	Mono Socket Tower Server		
Processors				
Intel® Xeon® UP (Dual- or Quad-Core)				
Intel® Xeon® UP (Dual- or Quad-Core)	Processors			
Type / Frequencies (GHz)				
Frequencies (GHz)	Type /			
X3350 (2.66); X3360 (2.83) all 95W QC				
Front-Side-Bus    800 / 1066 (X32xx) / 1333 MHz DC Xeon UP und X33xx  Second-Level-	, , ,	X3210 (2.13); X3220 (2.40) GHz QC 95W /		
und X33xx   Second-Level-		X3350 (2.66); X3360 (2.83) all 95W QC		
Second-Level- Cache   512 KB / 1 MB / 2 MB / 4 MB / 6 MB DC Xeon   72x 4 (32xx) / 2x 6 MB (33xx), ECC   Memory	Front-Side-Bus			
Cache   /2x 4 (32xx) / 2x 6 MB (33xx), ECC				
Memory   512 MByte up to max. 8 GByte				
ECC unbuffered DDR2 800 SDRAM; 2 banks with 2 slots each; (512 Mbyte, 1, 2 Gbyte each); Mix and match possible; with dual channel operation better performance (2 modules with equal capacity necessary). Single channel (1 module) configuration possible.  Flash-EPROM  Local BIOS update with floppy disk; Remote BIOS-Update via LAN with Global Flash and service partition  Interfaces  Serial  1 x serial RS-232-C (9-pin) usable for iRMC or system or shared 1 x serial RS-232-C (9-pin) (optional)  Centronics (parallel)  1 x 25-pin, EPP/ECP compatible (opt.)  Keyboard, Mouse  2 x PS/2  USB 2.0  1 x front, 4 x back 2 x internal for backup drives, 1x USB stick  Graphics  1 x VGA (15-pin)  LAN  1 x LAN R145, 1 x Service LAN 10/100  Onboard controller **  SATA variant (Intel® ICH9R)  6 port SATA for 4 internal HDD's with RAID 0, 1, 10 for Windows and Linux, RAID 5 iButton key optional, 2 ports for accessible drives also in SAS variant  SAS configuration in PCle slot either LSI 1068e  SAS configuration Bort SAS for internal HDD's and internal backup devices with RAID 0, 1 (Integrated Mirroring Enhanced also for odd numbered HD's for Windows and Linux) with RAID 0, 1, 10, 5, 50, 6; 60 (256 or 512 MB RAID Cache and opt. BBU)  LAN (Broadcom BCM5755)  BCM5755)  Tx Ethernet 10/100/1000 Mbit/s (PXE-Boot via LAN from PXE server), iSCSI Boot (lask diskless) via onboard LAN  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  Hard disk drives  73, 146, 300 Gbyte 3.5-inch SAS or 36, 73, 146 Gbyte 2.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SAF or 160, 250				
Mbyte, 1, 2 Gbyte each); Mix and match possible; with dual channel operation better performance (2 modules with equal capacity necessary). Single channel (1 module) configuration possible.  Flash-EPROM  Local BIOS update with floppy disk; Remote BIOS-Update via LAN with Global Flash and service partition  Interfaces  Serial				
operation better performance (2 modules with equal capacity necessary). Single channel (1 module) configuration possible.  Flash-EPROM  Local BIOS update with floppy disk; Remote BIOS-Update via LAN with Global Flash and service partition  Interfaces  Serial				
Recessary . Single channel (1 module) configuration possible.   Flash-EPROM				
Local BIOS update with floppy disk; Remote BIOS-Update via LAN with Global Flash and service partition				
with Global Flash and service partition   Interfaces				
with Global Flash and service partition   Interfaces	Local BIOS undate with	n floppy disk: Remote BIOS-I Indate via I AN		
Serial				
or system or shared 1 x serial RS-232-C (9-pin) (optional)  Centronics (parallel) 1 x 25-pin, EPP/ECP compatible (opt.)  Keyboard, Mouse 2 x PS/2  USB 2.0 1 x front, 4 x back 2 x internal for backup drives, 1x USB stick Graphics 1 x VGA (15-pin)  LAN 1 x LAN RJ45, 1 x Service LAN 10/100  Onboard controller **  SATA variant (Intel® ICH9R) 0, 1, 10 for Windows and Linux, RAID 5 iButton key optional, 2 ports for accessible drives also in SAS variant  SAS configuration in PCle slot either LSI 1068e 8 Port SAS for internal HDD's and internal backup devices with RAID 0, 1 (Integrated Mirroring Enhanced also for odd numbered HD's for Windows and Linux) with RAID 0, 1, 10, 5, 50, 6; 60 (256 or 512 MB RAID Cache and opt. BBU)  LAN (Broadcom BCM5755) 1x Ethernet 10/100/1000 Mbit's (PXE-Boot via LAN from PXE server), iSCSI Boot (also diskless) via onboard LAN  Server management Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional) Infineon / 1.2  Hard disk drives 73, 146, 300 Gbyte 3.5-inch SAS or 36, 73, 146 Gbyte 2.5-inch SAT A 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible 1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  In Glyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  In Glyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  In Glyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  In Glyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  In Glyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  In Glyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  In Glyte equals one billion bytes when referring to		,		
or system or shared 1 x serial RS-232-C (9-pin) (optional)  Centronics (parallel) 1 x 25-pin, EPP/ECP compatible (opt.)  Keyboard, Mouse 2 x PS/2  USB 2.0 1 x front, 4 x back 2 x internal for backup drives, 1x USB stick Graphics 1 x VGA (15-pin)  LAN 1 x LAN RJ45, 1 x Service LAN 10/100  Onboard controller **  SATA variant (Intel® ICH9R) 0, 1, 10 for Windows and Linux, RAID 5 iButton key optional, 2 ports for accessible drives also in SAS variant  SAS configuration in PCle slot either LSI 1068e 8 Port SAS for internal HDD's and internal backup devices with RAID 0, 1 (Integrated Mirroring Enhanced also for odd numbered HD's for Windows and Linux) with RAID 0, 1, 10, 5, 50, 6; 60 (256 or 512 MB RAID Cache and opt. BBU)  LAN (Broadcom BCM5755) 1x Ethernet 10/100/1000 Mbit's (PXE-Boot via LAN from PXE server), iSCSI Boot (also diskless) via onboard LAN  Server management Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional) Infineon / 1.2  Hard disk drives 73, 146, 300 Gbyte 3.5-inch SAS or 36, 73, 146 Gbyte 2.5-inch SAT A 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible 1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  In Glyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  In Glyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  In Glyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  In Glyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  In Glyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  In Glyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  In Glyte equals one billion bytes when referring to	Serial	1 x serial RS-232-C (9-pin) usable for iRMC		
Centronics (parallel)  Centronics (parallel)  1 x 25-pin, EPP/ECP compatible (opt.)  Keyboard, Mouse  2 x PS/2  USB 2.0  1 x front, 4 x back 2 x internal for backup drives, 1x USB stick  Graphics  1 x VGA (15-pin)  LAN  1 x LAN RJ45, 1 x Service LAN 10/100  Onboard controller **  SATA variant (Intel® ICH9R)  6 port SATA for 4 internal HDD's with RAID 0, 1, 10 for Windows and Linux, RAID 5 iButton key optional, 2 ports for accessible drives also in SAS variant  SAS configuration in PCle slot either LSI 1068e  8 port SAS for internal HDD's and internal backup devices with RAID 0, 1 (Integrated Mirroring Enhanced also for odd numbered HD's for Windows and Linux) with RAID 0, 1, 10, 5, 50, 6; 60 (256 or 512 MB RAID Cache and opt. BBU)  LAN (Broadcom BCM5755)  LAN (Broadcom BCM5755)  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  Infineon / 1.2  TPM (optional)  Infineon / 1.2  Hard disk drives  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  I/O Slots:  2 x PCI-Express x8, short 1 x PCI-Express x4, short 3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks  2 x 3.5-inch HDD box only in SAS	Jonai	or system or shared		
Centronics (parallel)  Keyboard, Mouse  2 x PS/2  USB 2.0  1 x front, 4 x back 2 x internal for backup drives, 1x USB stick  Graphics  LAN  1 x LAN RJ45, 1 x Service LAN 10/100  Onboard controller **  SATA variant (Intel® ICH9R)  6 port SATA for 4 internal HDD's with RAID 0, 1, 10 for Windows and Linux, RAID 5 iButton key optional, 2 ports for accessible drives also in SAS variant  SAS configuration in PCle slot either LSI 1068e  SAS configuration or LSI 1078  Or LSI 1078  LAN (Broadcom BCM5755)  BCM5755  BCM5755  BCM5755  CERVER management  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  Infineon / 1.2  TPM (optional)  Infineon / 1.2  TAG Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  I/O Slots:  2 x PCI-Express x4, short 1 x PCI-Express x8, short 1 x PCI-Express x9, short 1 x PC				
Very large of the composition	Centronics (parallel)			
USB 2.0  1 x front, 4 x back 2 x internal for backup drives, 1x USB stick  Graphics  1 x VGA (15-pin)  LAN  1 x LAN RJ45, 1 x Service LAN 10/100  Onboard controller **  SATA variant (Intel® ICH9R)  5 iButton key optional, 2 ports for accessible drives also in SAS variant  SAS configuration in PCIe slot either LSI 1068e  SAS to teither LSI 1068e  CRIST 1078  LAN (Broadcom BCM5755)  Server management  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  TPM (optional)  Hard disk drives  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  Iv Sal				
2 x internal for backup drives, 1x USB stick Graphics				
Graphics  LAN  1 x VGA (15-pin)  LAN  1 x LAN RJ45, 1 x Service LAN 10/100  Onboard controller **  SATA variant (Intel® ICH9R)  6 port SATA for 4 internal HDD's with RAID 0, 1, 10 for Windows and Linux, RAID 5 iButton key optional, 2 ports for accessible drives also in SAS variant  SAS configuration in PCle slot either LSI 1068e  8 port SAS for internal HDD's and internal backup devices with RAID 0, 1 (Integrated Mirroring Enhanced also for odd numbered HD's for Windows and Linux) with RAID 0, 1, 10, 5, 50, 6; 60 (256 or 512 MB RAID Cache and opt. BBU)  LAN (Broadcom BCM5755)  Server management  Integrated Remote Management Controller (IRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  Infineon / 1.2  TPM (optional)  Infineon / 1.2  Ta, 146, 300 Gbyte 3.5-inch SAS or 36, 73, 146 GByte 2.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SAS or 160, 250, 5	00B 2.0	. ,		
LAN	Graphics			
Onboard controller **  SATA variant (Intel® ICH9R)  6 port SATA for 4 internal HDD's with RAID 0, 1, 10 for Windows and Linux, RAID 5 iButton key optional, 2 ports for accessible drives also in SAS variant  8 port SAS for internal HDD's and internal backup devices with RAID 0, 1 (Integrated Mirroring Enhanced also for odd numbered HD's for Windows and Linux)  or LSI 1078  8 port SAS for internal HDD's and internal backup devices with RAID 0, 1 (Integrated Mirroring Enhanced also for odd numbered HD's for Windows and Linux) with RAID 0, 1, 10, 5, 50, 6; 60 (256 or 512 MB RAID Cache and opt. BBU)  1 Ethernet 10/100/1000 Mbit/s (PXE-Boot via LAN from PXE server), iSCSI Boot (also diskless) via onboard LAN  Server management Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional) Infineon / 1.2  Tay 146, 300 Gbyte 3.5-inch SAS or 36, 73, 146 Gbyte 2.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SATA 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  WO Slots:  2 x PCI-Express x8, short 1 x PCI-Express x4, short 3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks  4x 3.5-Zoll, for Hot-plug SAS/SATA or 8x 2.5-Zoll, for Hot-plug SAS		` ' '		
SATA variant (Intel® ICH9R)  SAS configuration in PCle slot either LSI 1068e  Or LSI 1078  LAN (Broadcom BCM5755)  Betwer management  Server management  TPM (optional)  TPM (optional)  TPM (optional)  Hard disk drives  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  Io port SATA for 4 internal HDD's with RAID 0, 1, 10 for Windows and Linux, and internal backup devices with RAID 0, 1 (Integrated Mirroring Enhanced also for odd numbered HD's for Windows and Linux)  With RAID 0, 1, 10, 5, 50, 6; 60 (256 or 512 MB RAID Cache and opt. BBU)  1x Ethernet 10/100/1000 Mbit/s (PXE-Boot via LAN from PXE server), iSCSI Boot (also diskless) via onboard LAN  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  Infineon / 1.2  TPM (optional)  Infineon / 1.2  To gyptic for accessible capacity may vary.  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  Infineon / 1.2  To gyptic for back or 160, 250, 500, 750 Gbyte 3.5-inch SAS or 160, 250, 500, 750 Gbyt		T X E W T TO TO, T X COI VICE E W TO, TOO		
(Intel® ICH9R)  (Intel® ICH9R)		6 port SATA for 4 internal HDD's with BAID		
iButton key optional, 2 ports for accessible drives also in SAS variant  SAS configuration in PCle slot either LSI 1068e  SPOTT SAS for internal HDD's and internal backup devices with RAID 0, 1 (Integrated Mirroring Enhanced also for odd numbered HD's for Windows and Linux)  or LSI 1078  With RAID 0, 1, 10, 5, 50, 6; 60 (256 or 512 MB RAID Cache and opt. BBU)  LAN (Broadcom BCM5755)  LAN (Broadcom BCM5755)  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  Infineon / 1.2  TPM (optional)  Infineon / 1.2  TPM (optional)  Infineon / 1.2  To Gbyte 3.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  I/O Slots:  2 x PCI-Express x8, short  1 x PCI-Express x4, short  3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks  4x 3.5-Zoll, for Hot-plug SAS/SATA or 8x 2.5-Zoll, for Hot-plug SAS (in slide-in chassis)  for optional hard disks  2x 3.5-inch HDD box only in SAS				
drives also in SAS variant  SAS configuration in PCIe slot either LSI 1068e  RAID 0, 1 (Integrated Mirroring Enhanced also for odd numbered HD's for Windows and Linux)  with RAID 0, 1, 10, 5, 50, 6; 60 (256 or 512 MB RAID Cache and opt. BBU)  LAN (Broadcom BCM5755)  LAN (Broadcom BCM5755)  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  Infineon / 1.2  Tay 146, 300 Gbyte 3.5-inch SAS or 36, 73, 146 Gbyte 2.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  Infineon / 1.2  T3, 146, 300 Gbyte 3.5-inch SAS or 36, 73, 146 Gbyte 2.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  I/O Slots:  2 x PCI-Express x8, short  1 x PCI-Express x4, short  3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks  4x 3.5-Zoll, for Hot-plug SAS/SATA or 8x 2.5-Zoll, for Hot-plug SAS (in slide-in chassis)	(IIIIOIO IOI IOIT)			
SAS configuration in PCIe slot either LSI 1068e  8 port SAS for internal HDD's and internal backup devices with RAID 0, 1 (Integrated Mirroring Enhanced also for odd numbered HD's for Windows and Linux) with RAID 0, 1, 10, 5, 50, 6; 60 (256 or 512 MB RAID Cache and opt. BBU)  LAN (Broadcom BCM5755)  LAN (Broadcom BCM5755)  1x Ethernet 10/100/1000 Mbit/s (PXE-Boot via LAN from PXE server), iSCSI Boot (also diskless) via onboard LAN  Server management  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  Infineon / 1.2  73, 146, 300 Gbyte 3.5-inch SAS or 36, 73, 146 Gbyte 2.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  I/O Slots:  2 x PCI-Express x8, short  1 x PCI-Express x4, short  3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks  4x 3.5-Zoll, for Hot-plug SAS/SATA or 8x 2.5-Zoll, for Hot-plug SAS (in slide-in chassis)  for optional hard disks  2x 3.5-inch HDD box only in SAS				
LSI 1068e RAID 0, 1 (Integrated Mirroring Enhanced also for odd numbered HD's for Windows and Linux)  or LSI 1078 with RAID 0, 1, 10, 5, 50, 6; 60 (256 or 512 MB RAID Cache and opt. BBU)  LAN (Broadcom BCM5755) 1x Ethernet 10/100/1000 Mbit/s (PXE-Boot via LAN from PXE server), iSCSI Boot (also diskless) via onboard LAN  Server management Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional) Infineon / 1.2  Ta, 146, 300 Gbyte 3.5-inch SAS or 36, 73, 146 Gbyte 2.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SATA 3.5-inch SATA 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  IVO Slots:  2 x PCI-Express x8, short 1 x PCI-Express x4, short 3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks 4x 3.5-Zoll, for Hot-plug SAS/SATA or 8x 2.5-Zoll, for Hot-plug SAS (in slide-in chassis)  for optional hard disks 2x 3.5-inch HDD box only in SAS	SAS configuration			
also for odd numbered HD's for Windows and Linux) with RAID 0, 1, 10, 5, 50, 6; 60 (256 or 512 MB RAID Cache and opt. BBU)  LAN (Broadcom BCM5755)  LAN (Broadcom BCM5755)  Server management  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  Infineon / 1.2  T3, 146, 300 Gbyte 3.5-inch SAS or 36, 73, 146 Gbyte 2.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SATA 3.5-inch SATA 3.5-inch SATA 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  IVO Slots: 2 x PCI-Express x8, short 1 x PCI-Express x4, short 3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks  4x 3.5-Zoll, for Hot-plug SAS/SATA or 8x 2.5-Zoll, for Hot-plug SAS (in slide-in chassis)  for optional hard disks 2x 3.5-inch HDD box only in SAS	in PCIe slot either	•		
and Linux) with RAID 0, 1, 10, 5, 50, 6; 60 (256 or 512 MB RAID Cache and opt. BBU)  LAN (Broadcom BCM5755)  Ix Ethernet 10/100/1000 Mbit/s (PXE-Boot via LAN from PXE server), iSCSI Boot (also diskless) via onboard LAN  Server management  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  Infineon / 1.2  T3, 146, 300 Gbyte 3.5-inch SAS or 36, 73, 146 Gbyte 2.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible  Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  I/O Slots:  2 x PCI-Express x8, short 1 x PCI-Express x4, short 3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks  4x 3.5-Zoll, for Hot-plug SAS/SATA or 8x 2.5-Zoll, for Hot-plug SAS (in slide-in chassis)	LSI 1068e			
or LSI 1078 with RAID 0, 1, 10, 5, 50, 6; 60 (256 or 512 MB RAID Cache and opt. BBU)  LAN (Broadcom BCM5755) 1x Ethernet 10/100/1000 Mbit/s (PXE-Boot via LAN from PXE server), iSCSI Boot (also diskless) via onboard LAN  Server management Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional) Infineon / 1.2  Hard disk drives 73, 146, 300 Gbyte 3.5-inch SAS or 36, 73, 146 Gbyte 2.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  I/O Slots:  2 x PCI-Express x8, short 1 x PCI-Express x4, short 3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks 4x 3.5-Zoll, for Hot-plug SAS/SATA or 8x 2.5-Zoll, for Hot-plug SAS (in slide-in chassis)  for optional hard disks 2x 3.5-inch HDD box only in SAS				
MB RAID Cache and opt. BBU)  LAN (Broadcom BCM5755)  Ix Ethernet 10/100/1000 Mbit/s (PXE-Boot via LAN from PXE server), iSCSI Boot (also diskless) via onboard LAN  Server management  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  Infineon / 1.2  Tagaphics controller, IPMI 2.0  Tagaphics controller, IPMI 2.0  Infineon / 1.2  Tagaphics controller, IPMI 2.0  Infineon / 1.2  Tagaphics controller, IPMI 2.0  Tagaphics	or I CI 1070			
LAN (Broadcom BCM5755)  1x Ethernet 10/100/1000 Mbit/s (PXE-Boot via LAN from PXE server), iSCSI Boot (also diskless) via onboard LAN  Server management  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  Infineon / 1.2  Taghies 2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  Infineon / 1.2  Taghies 3, 3-inch SAS or 36, 73, 146 (Byte 2.5-inch SAS or 160, 250, 500, 750 (Byte 3.5-inch SAS or 160, 250, 500, 750 (Byte 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  I/O Slots:  2 x PCI-Express x8, short 1 x PCI-Express x4, short 3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks  4x 3.5-Zoll, for Hot-plug SAS/SATA or 8x 2.5-Zoll, for Hot-plug SAS (in slide-in chassis)  for optional hard disks  2x 3.5-inch HDD box only in SAS	<b>01</b> L31 1076			
BCM5755)  via LAN from PXE server), iSCSI Boot (also diskless) via onboard LAN  Server management  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  Infineon / 1.2  Hard disk drives  73, 146, 300 Gbyte 3.5-inch SAS or 36, 73, 146 Gbyte 2.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SATA 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  I/O Slots: 2 x PCI-Express x8, short 1 x PCI-Express x4, short 3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks  4x 3.5-Zoll, for Hot-plug SAS/SATA or 8x 2.5-Zoll, for Hot-plug SAS (in slide-in chassis)  for optional hard disks  2x 3.5-inch HDD box only in SAS	LAN (Broadcom	1 E		
diskless) via onboard LAN  Server management  Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0  TPM (optional)  Infineon / 1.2  Hard disk drives  73, 146, 300 Gbyte 3.5-inch SAS or 36, 73, 146 Gbyte 2.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SATA 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  I/O Slots: 2 x PCI-Express x8, short 1 x PCI-Express x4, short 3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks  4x 3.5-Zoll, for Hot-plug SAS/SATA or 8x 2.5-Zoll, for Hot-plug SAS (in slide-in chassis)  for optional hard disks  2x 3.5-inch HDD box only in SAS				
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TPM (optional)  Infineon / 1.2  73, 146, 300 Gbyte 3.5-inch SAS or 36, 73, 146 Gbyte 2.5-inch SAS or 160, 250, 500, 750 Gbyte 3.5-inch SATA 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  I/O Slots: 2 x PCI-Express x8, short 1 x PCI-Express x4, short 3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks  4x 3.5-Zoll, for Hot-plug SAS/SATA or 8x 2.5-Zoll, for Hot-plug SAS (in slide-in chassis)  for optional hard disks  2x 3.5-inch HDD box only in SAS				
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750 Gbyte 3.5-inch SATA 3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  I/O Slots:  2 x PCI-Express x8, short 1 x PCI-Express x4, short 3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks  4x 3.5-Zoll, for Hot-plug SAS/SATA or 8x 2.5-Zoll, for Hot-plug SAS (in slide-in chassis)  for optional hard disks  2x 3.5-inch HDD box only in SAS	Hard disk drives	73, 146, 300 Gbyte 3.5-inch SAS <b>or</b> 36, 73,		
3.5-inch SAS / SATA mix only in separate HD-cages and in separate RAID sets, no later conversion from 3,5 to 2,5-inch possible  1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.  I/O Slots:  2 x PCI-Express x8, short  1 x PCI-Express x4, short  3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks  4x 3.5-Zoll, for Hot-plug SAS/SATA or 8x 2.5-Zoll, for Hot-plug SAS (in slide-in chassis)  for optional hard disks  2x 3.5-inch HDD box only in SAS		, , , ,		
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1 x PCI-Express x4, short 3 x PCI 32-bit / 33MHz, 2x long (5V); (in SAS configuration 1x PCIe occupied with modular RAID)  Drive bays  for hard disks  4x 3.5-Zoll, for Hot-plug SAS/SATA or 8x 2.5-Zoll, for Hot-plug SAS (in slide-in chassis)  for optional hard disks  2x 3.5-inch HDD box only in SAS		hort		
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for optional hard disks 2x 3.5-inch HDD box only in SAS				
	for optional hard disks			
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for accessible drives	3x 5.25/1.6-inch, (all possible options described in relevant system configurator) 1x 3,5/1-inch, for FDD (optional)				
Electrical values	•				
1x standard or 2x of	ptional	redui	ndant hot-plug power supplies		
Output power	•		350 W / 1 + 1 x 400 W each		
Rated voltage rang	ge		100 - 240 V		
Rated frequency			50-60 Hz		
Max. rated current			100 V - 240 V / 6 A – 3 A		
Rated current in basic			100 V - 240 V / 1.9 - 0.8 A		
configuration			100 V - 240 V / 1.9 - 0.0 A		
Active power (min	– max)		64 - 232 W		
Apparent power (min – max					
Heat emission (min - max)			) 230 - 835 kJ/h (218 - 792 btu/h		
Temperature/Noise	e/Dimer	nsion	s/Weight		
Ambient temperate			C - 35°C (DIN IEC 721-3-3) class		
7 imbioni temperati	ai c	3K2	; ETSI 300 019-2-3 Class 3.1		
Declared noise in			* / operating* (*ISO 7779)		
according with ISO 9296		ETSI 300 753 Class 3.1			
Sound pressure L		26 db(A) /35 db(A)			
Sound power L <sub>WAd</sub>		4.4 B / 5.3 B (1 BEL = 10 db)			
Dimension	1	444 x 205 x 605 mm,			
of floor-stand (HxV	VxD)	incl. all plastics			
Rack (HxWxD)	,,,,		x 482 x 642 mm;		
aon (i intino)		Rack mounting depth 607 mm; 5U			
Weight		Up to 28 kg			
Compliance with N	lorme 1				
Product safety	NOI IIIS A	iiiu S	tanuarus		
Global		IFC	60950-1		
Europe			60950-1		
USA			UL 60950-1		
			CAN/CSA-C22.2 No. 60950-1		
Electromagnetic of	compat				
			ccessories, are in compliance with		
			es measures have to be taken to		
reduce the electro r	nagneti	c influ	ience to other equipment.		
Europe	agou	F	N 55 022 class A, EN 55024,		
			N61000-3-2 / -3, ETSI EN300386		
USA / Canada			CC class A		
Declaration of cor					
Docial attoll of ool	oformit	,			
Europo (CE)	nformit		004/408/EC:		
Europe (CE)	nformit	2	004/108/EC; 006/95 FC		
. , ,	nformit	2 2	006/95 EC		
North America	nformit	2 2			
North America Approvals	nformit	2 2	006/95 EC		
North America Approvals Product safety	nformit	2 2 F	006/95 EC CC class A		
North America  Approvals  Product safety  Global	nformit	2 2 F	006/95 EC CC class A		
North America  Approvals  Product safety  Global  Europe	nformity	2 2 F	006/95 EC CC class A		
North America  Approvals  Product safety  Global  Europe  USA / Canada		2 2 F	006/95 EC CC class A EB EE SA <sub>US</sub> / CSA <sub>C</sub>		
North America  Approvals  Product safety  Global  Europe  USA / Canada  There is general co	mplianc	2 2 F	CC class A  BB EE SA <sub>US</sub> / CSA <sub>C</sub> In the safety requirements of all		
North America  Approvals  Product safety  Global  Europe  USA / Canada  There is general co European countries	mplianc	2 2 F	006/95 EC CC class A  BB EE SA <sub>US</sub> / CSA <sub>C</sub> In the safety requirements of all merica. National approvals required		
North America  Approvals  Product safety  Global  Europe  USA / Canada  There is general co  European countries in order to satisfy st	mplianc and No	2 2 F	CC class A  BB EE SA <sub>US</sub> / CSA <sub>C</sub> The safety requirements of all		
North America  Approvals  Product safety  Global  Europe  USA / Canada  There is general co European countries in order to satisfy st applied for on reque	mplianc and No atutory est.	2 2 F	CC class A  BB EE SA <sub>US</sub> / CSA <sub>C</sub> In the safety requirements of all merica. National approvals required ations or for other reasons, can be		
North America  Approvals  Product safety  Global  Europe  USA / Canada  There is general co  European countries in order to satisfy st applied for on reque  Supported server	mplianc and No atutory est.	2 2 F C C C C C e with Arregul	CC class A  B EE SA <sub>US</sub> / CSA <sub>C</sub> In the safety requirements of all merica. National approvals required ations or for other reasons, can be		
North America  Approvals  Product safety Global  Europe USA / Canada  There is general co European countries in order to satisfy st applied for on reque  Supported server See actual release	mplianc and No atutory est. operati	2 2 F	O06/95 EC CC class A  B EE SA <sub>US</sub> / CSA <sub>C</sub> In the safety requirements of all merica. National approvals required ations or for other reasons, can be   /stems ing systems: e.g. Windows Server		
North America  Approvals  Product safety Global  Europe USA / Canada  There is general co European countries in order to satisfy st applied for on reque  Supported server See actual release 2003; Windows Ser	mplianc and No atutory est. operati status over 200	2 2 2 F C C C C C C P with A regul P P P P P P P P P P P P P P P P P P P	O06/95 EC CC class A  B EE SA <sub>US</sub> / CSA <sub>C</sub> In the safety requirements of all merica. National approvals required ations or for other reasons, can be  /stems ing systems: e.g. Windows Server ovell SUSE Linux Enterprise Server ,		
North America  Approvals  Product safety Global Europe USA / Canada There is general co European countries in order to satisfy st applied for on reque Supported server See actual release 2003; Windows Ser Red Hat Enterprise	mplianc and No atutory est. operati status o ver 200 Linux (\$	2 2 2 F F C C C C C C C C C C C C C C C	O06/95 EC CC class A  B EE SA <sub>US</sub> / CSA <sub>C</sub> In the safety requirements of all merica. National approvals required ations or for other reasons, can be  retems  ing systems: e.g. Windows Server ovell SUSE Linux Enterprise Server, ort of Debian, Ubuntu, Mandriva		
North America  Approvals  Product safety Global Europe USA / Canada There is general co European countries in order to satisfy st applied for on reque Supported server See actual release 2003; Windows Ser Red Hat Enterprise Linux and other Line ** For supported co	mplianc and No atutory est. operati status o ver 200 Linux (s ux deriv ntrollers	2 2 2 2 F F C C C C C C C C C C C C C C	O06/95 EC CC class A  BB EE SA <sub>US</sub> / CSA <sub>C</sub> In the safety requirements of all merica. National approvals required ations or for other reasons, can be returned ations or for other reasons. Can be returned ations or for other reasons. Can be returned ations or for other reasons. Can be returned ations or for other reasons, can be returned ations or for other reasons, can be returned at the returne		
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North America  Approvals  Product safety  Global  Europe  USA / Canada  There is general co European countries in order to satisfy st applied for on reque  Supported server  See actual release 2003; Windows Ser Red Hat Enterprise Linux and other Linu ** For supported co RAID, LAN, WAN, econfigurator.	mplianc and No atutory est. operati status o ver 200 Linux (su untrollers etc.), ple	222 FF	O06/95 EC CC class A  EB EE SA <sub>US</sub> / CSA <sub>C</sub> In the safety requirements of all merica. National approvals required ations or for other reasons, can be  Interest of the safety requirements of all merica. National approvals required ations or for other reasons, can be  Interest of the safety requirements of all merica. National approvals required ations or for other reasons, can be  Interest of the safety requirements of all merica. National approvals required ations or for other reasons, can be  Interest of the safety requirements of all merica. National approvals required ations or for other reasons, can be  Interest of the safety requirements of all merica. National approvals required ations or for other reasons, can be  Interest of the safety requirements of all merica. National approvals required ations or for other reasons, can be  Interest of the safety requirements of all merica. National approvals required ations or for other reasons, can be  Interest of the safety requirements of all merica. National approvals required ations or for other reasons, can be  Interest of the safety requirements of all merica. National approvals required ations or for other reasons, can be  Interest of the safety requirements of all merica. National approvals required ations or for other reasons, can be  Interest of the safety requirements of all merica. National approvals required ations or for other reasons, can be safety required at the safety requirements of all merica. National approvals required ations or for other reasons, can be safety required at the safety requirements of all merica. National approvals required at the safety require		
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